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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/500,264	12/08/2004	Andrea Mahn	4121-168	9836
7590 04/14/2006			EXAMINER	
Steven J Hultquist			WORLEY, CATHY KINGDON	
Intellectual Property Technology Law PO Box 14329			ART UNIT	PAPER NUMBER
Research Triangle Park, NC 27709			1638	

DATE MAILED: 04/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/500,264	MAHN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cathy K. Worley	1638				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed  n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Ju	Responsive to communication(s) filed on <u>18 June 2004</u> .					
,	,—					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-19 are subject to restriction and/or expressions.	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner  9) The specification is objected to by the Examiner  10) The oath or declaration is objected to by the Examiner  9) The specification is objected to by the Examiner  11) The oath or declaration is objected to by the Examiner  12) The oath or declaration is objected to by the Examiner  13) The oath or declaration is objected to by the Examiner  14) The oath or declaration is objected to by the Examiner  15) The oath or declaration is objected to by the Examiner  16) The oath or declaration is objected to by the Examiner  17) The oath or declaration is objected to by the Examiner  18) The oath or declaration is objected to by the Examiner  19) The oath or declaration is objected to by the Examiner  11) The oath or declaration is objected to by the Examiner  11) The oath or declaration is objected to by the Examiner  11) The oath or declaration is objected to by the Examiner  11) The oath or declaration is objected to by the Examiner  11) The oath or declaration is objected to by the Examiner  12) The oath or declaration is objected to by the Examiner  13) The oath or declaration is objected to by the Examiner  14) The oath or declaration is objected to by the Examiner  15) The oath or declaration is objected to by the Examiner  16) The oath or declaration is objected to by the Examiner  17) The oath or declaration is objected to by the Examiner  18) The oath or declaration is objected to by the Examiner is objected to be the Examiner is ob	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ol>	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Groups 1-26,112, claim(s) 1-19, drawn to a method of increasing the content of one or more transgene-coded biomolecules in an organism, the method comprising changing the distribution of ATP and/or ADP in cells of the organism; where in:

a) the transgene is regulated in a specified manner: constitutive, temporally, locally, inducibly

- b) several transgene biomolecules are expressed in parallel or sequentially
- c) there is a specified host organism: plant or animal
- d) the transgene encodes a specified type of biomolecule: peptide, protein, or nucleic acid
- e) the transgene encodes a specified class of molecule: antibodies, aptamers, receptors, enzymes, growth factors, hormones, specific antigen, antibody molecules, interferons, immunoglobulins, growth hormones, insulin, collagen, plasminogen

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activator, blood factor I, blood factor II, blood factor III, blood factor IV, blood factor V, blood factor VI, blood factor VII, blood factor VIII, blood factor IX, blood factor X, blood factor XII, histocompatibility antigens, enzymes, tumor marker proteins, viral proteins, ribozymes, single-stranded DNA, double-stranded DNA, single-stranded RNA, or double-stranded RNA

f) subcellular distribution of ATP and/or ADP is either increase or reduced g) expression of a gene which codes for a protein involved in the subcellular distribution of ATP and/or ADP is either increased or decreased and

h) the expression of a gene which codes for a protein involved in the subcellular distribution of ATP and/or ADP is constitutive or regulated temporally, locally, or inducibly,

and wherein each of the groups 1-26,112 has a different combination of the items listed in parts a-h.

The inventions listed as Groups 1-26,112 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking groups 1-26,112 is a method comprising changing the distribution of ATP and/or ADP in the cells of an organism wherein the content of

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one or more transgene-coded biomolecules is increased. However, Tjaden et al. (The Plant Journal (1998) Vol. 16, pp. 531-540) teach altered ATP distribution (see page 533, Table 2) and teach increased content of AATP1 which is a transgene-coded biomolecule (see page 533, figure 2A). Therefore, the technical feature linking the inventions of groups 1-26,112 does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

Accordingly, groups 1-26,112 are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse.

To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly

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admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy K. Worley whose telephone number is (571) 272-8784. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CKW

April 3, 2006

CYNTHIA COLLINS
PRIMARY EXAMINER

Cynthia Collins
4/11/06